

City of Chattanooga, TN
Personnel Class Specification

CLASS CODE 0751

FLSA: Non-Exempt

CLASSIFICATION TITLE: TRAFFIC ELECTRICIAN

PURPOSE OF CLASSIFICATION

The purpose of this classification is to perform skilled work functions associated with installation and maintenance of traffic control devices.

ESSENTIAL FUNCTIONS

The following duties are normal for this position. These are not to be construed as exclusive or all-inclusive. Other duties may be required and assigned.

Installs, repairs, removes, replaces, activates, upgrades, and maintains traffic control devices and related equipment, which may include controllers, signals, school flashers, cabinets, conductors, loop detectors, guide wires, and hardware.

Performs general electrical wiring; installs/maintains new wiring in buildings; removes old electrical wiring as needed; maintains wiring in manholes; maintains electrical wiring on bucket truck and lift.

Inspects intersection equipment for proper operation; checks intersection devices for correct height; inspects downed equipment to ensure power is dead.

Coordinates work activities with utility companies.

Performs various skilled/manual tasks associated with department projects, which may include building forms and templates, building control panels and cabinets, setting steel poles and cabinets, mounting controller cabinets and wire fixtures, installing heating/cooling systems, installing water heaters, testing electric circuits, removing malfunctioning devices, assembling signs/signals, hanging fixtures and signals/signs, replacing outdoor flood lights, running electrical cables, installing conduits and guide wires, rigging pulleys, bending/shaping conduit, cutting/threading conduit, welding metal parts, straightening bent fixtures, drilling/punching holes, sanding/painting fixtures and cabinets, checking gas/oxygen levels in manholes, placing traffic/safety cones, and flagging/directing traffic.

Operates a variety of machinery, equipment, and tools associated with department projects, which may include a bucket truck, lift truck, winch truck, signal controller, vehicle detector, cable trailer, wire reel, generator, air compressor, grinder, lacing machine, pipe threader, welder, cutting torch, solder gun, chain hoist, drill, drill

press, table saw, concrete saw, jackhammer, hydraulic bender, conduit benders, hole punch, volt ohmmeter, electrician tools, mechanic tools, and diagnostic instruments.

Inspects/tests machinery, equipment and parts for proper operations; makes adjustments, repairs or replacements as appropriate; reports problem situations.

Performs general cleaning/maintenance tasks necessary to keep vehicles, equipment, and tools in operable condition, which may include inspecting equipment, checking fluid levels, replacing fluids, lubricating equipment, replacing parts, cleaning equipment, and cleaning work areas; monitors equipment operations to maintain efficiency and safety; reports faulty equipment.

Utilizes precautionary safety equipment and monitors work environment to ensure safety of employees and other individuals.

Monitors inventory levels of parts, equipment, tools, or supplies on truck; initiates requests for new or replacement materials.

Reviews blueprints to plan installation work.

Prepares or completes various forms, correspondence, reports, logs, work orders, lists, purchase orders, accident reports, and other documents.

Receives various forms, reports, work orders, receipts, charts, blueprints, diagrams, specifications, code books, manuals, or other documentation; reviews, processes, forwards or retains as appropriate.

Communicates with supervisor, employees, other departments, contractors, law enforcement officials, utility companies, the public, and other individuals as needed to coordinate work activities, review status of work, exchange information, or resolve problems.

Communicates via telephone and/or two-way radio; provides information and assistance; takes and relays messages or directs calls to appropriate personnel; returns calls as necessary.

ADDITIONAL FUNCTIONS

Picks up supplies or materials as needed.

Provides assistance to other employees or departments as needed.

Performs other related duties as required.

MINIMUM QUALIFICATIONS

Vocational/Technical degree with training emphasis in electrical maintenance; supplemented by three (3) to five (5) years previous experience and/or training that includes electrical maintenance, traffic signal installation, or traffic construction; or any equivalent combination of education, training, and experience which provides the requisite knowledge, skills, and abilities for this job. Must possess and maintain a

valid Journeyman Electrical Certificate/License. Must possess and maintain a valid City of Chattanooga Electrical License. Must possess and maintain a valid Tennessee Driver's License.

PERFORMANCE APTITUDES

Data Utilization: Requires the ability to review, classify, categorize, prioritize, and/or analyze data. Includes exercising discretion in determining data classification, and in referencing such analysis to established standards for the purpose of recognizing actual or probable interactive effects and relationships.

Human Interaction: Requires the ability to provide guidance, assistance, and/or interpretation to others regarding the application of procedures and standards to specific situations.

Equipment, Machinery, Tools, and Materials Utilization: Requires the ability to overhaul, restore, renovate, construct, and/or rebuild equipment, machinery, or objects, requiring adherence to prescribed standards and specifications. Requires the ability to operate and control the actions of the same equipment, machinery, and/or objects.

Verbal Aptitude: Requires the ability to utilize a wide variety of reference, descriptive, and/or advisory data and information.

Mathematical Aptitude: Requires the ability to perform addition, subtraction, multiplication and division; ability to calculate decimals and percentages; may include ability to perform mathematical operations with fractions; may include ability to compute discount, interest, profit and loss, ratio and proportion; may include ability to calculate surface areas, volumes, weights, and measures.

Functional Reasoning: Requires the ability to apply principles of rational systems; to interpret instructions furnished in written, oral, diagrammatic, or schedule form; and to exercise independent judgment to adopt or modify methods and standards to meet variations in assigned objectives.

Situational Reasoning: Requires the ability to exercise judgment, decisiveness and creativity in situations involving evaluation of information against measurable or verifiable criteria.

ADA COMPLIANCE

Physical Ability: Tasks require the ability to exert moderate, though not constant physical effort, typically involving some combination of climbing and balancing, stooping, kneeling, crouching, and crawling, and which may involve some lifting, carrying, pushing and/or pulling of objects and materials of moderate weight (12-20 pounds).

Sensory Requirements: Some tasks require the ability to perceive and discriminate colors or shades of colors, sounds, odor, depth, texture, and visual cues or signals. Some tasks require the ability to communicate orally.

Environmental Factors: Performance of essential functions may require exposure to adverse environmental conditions, such as dirt, dust, pollen, odors, humidity, rain, temperature and noise extremes, machinery, vibrations, electric currents, traffic hazards, toxic agents, violence, disease, or pathogenic substances.

Chattanooga, Tennessee, is an Equal Opportunity Employer. In compliance with the Americans with Disabilities Act, the City will provide reasonable accommodations to qualified individuals with disabilities and encourages both prospective and current employees to discuss potential accommodations with the employer.